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# Delivering the Goods: Implementing Web Scale

Michael Kucsak

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# Delivering the Goods

## Implementing Web Scale

Michael Kucsak

Director of Library Systems and Technology

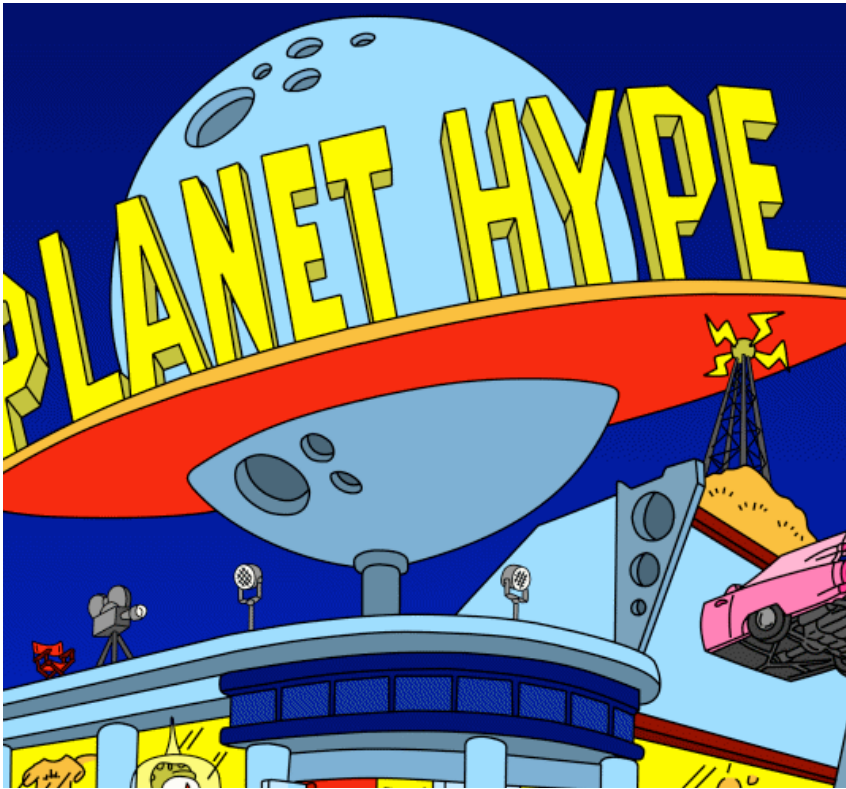
University of North Florida

<http://library.unf.edu>

NISO Virtual Conference November 20, 2013



# Promises



- Google-like searching
- ~98.5% coverage of library content
- One click access to full text content
- Everything is better with <insert product here>!!!

# 3 Keys to a Successful Implementation

1. Support from management
2. Clearly defined goals
3. Diverse implementation team





# Support from Management

“We will be using the EDS first and foremost when we search; we will be teaching it first in classes; we will be using it first in one on one instructions; and we will be promoting it at the new service desk. And, we will keep very good statistics on all facets of the pilot.”

An email to all library faculty  
from the Associate Dean of the Library



## Clearly Defined Goals

1. Primary search tool by September 30, 2011
2. Include all physical and covered eResources
3. Seamless integration with our web site and EZProxy
4. Successful link to full text ≥90%
5. Staff trained
6. Problem reporting process



### Project Scope:

The responsibilities of the team begins with the technical implementation of a functioning, searchable system which provides at least the minimal capabilities documented by the business requirements. A successful implementation will provide for the following:  
Integration with existing systems including CMS and EZProxy  
Training of staff  
Troubleshooting and methods of internal communications  
Reporting and statistics supporting long-term evaluation

The team has complete decision making authority over the implementation of the system. Promotion of the new system will fall under the purview of the Communications Committee.

### Goal Statement

Implement the core functionality of the Ebsco EDS as the primary library search tool for the University by September 30. The system will index the library's physical and covered virtual holdings to integrating seamlessly into our existing systems (e.g. CMS and EZProxy) providing end users with enhanced search results and direct access to full-text content online. The library will be able to use EDS first and foremost for searching, teaching and one on one instructions.

## Web Scale Implementation

### Project Team

**Facilitator:** Michael Kucsak

### Team Members:

Sarah Philips (Director of Public Services)  
Jeff Bowen (Director of Technical Services)  
Jim Alderman (Head of Instruction)  
Alice Eng (eResources Librarian)  
Susan Massey (Head of Cataloging)  
Lauren Newton (Reference and Instruction Librarian)

### Bench Strength:

Robb Waltner (Head of Acquisitions)  
Oliver ~~Pesch~~ (Ebsco)  
Peter ~~Favazza~~ (Ebsco)

### Measures of Success:

A successful implementation will allow users to search and retrieve local and online holdings through the library website on or off campus with full-text links delivering students directly to content at least 90% of the time. Library staff will be trained in basic functionality and able to work with patrons on common technical issues. A system of problem reporting will be in place for all library staff and issues will be recorded for resolution and analysis. Reporting systems will clearly demonstrate any value add to users.

Timeline: The project will be completed by September 30, 2011 with the modification of the CMS site.





## Diverse Implementation Team

- Acquisitions
- 
- Cataloging
- 
- Instruction
- 
- Reference
- 
- Library Systems
- 
- Information Technology
- 
- Florida Center for Library Automation
- 
- EBSCO Support
- 
- 





# Changes to Make it Work

- Dropped Serials Solutions 360 for EBSCO's LinkSource and A-Z
  - Reduce finger pointing
- Dropped ProQuest for EBSCO Databases
  - Increase reliability of full-text links





# Initial Challenges

## 6. Assessing incentive policies for integrating centralized **solar power** generation in the Brazilian electric **power** system.



Academic  
Journal

By: Malagueta, Diego; Szklo, Alexandre; Borba, Bruno Soares Moreira Cesar; Soria, Rafael; Aragão, Raymundo; Schaeffer, Roberto; Dutra, Ricardo. *Energy Policy*. Aug2013, Vol. 59, p198-212. 15p. DOI: 10.1016/j.enpol.2013.03.029. , Database: Business Source Complete

Abstract: This study assesses the impacts of promoting, through auctions, centralized **solar power** generation (concentrated **solar power** – CSP, and photovoltaic **solar** panels – PV) on the Brazilian ...

**Subjects:** **SOLAR power** plants; ENERGY policy; ELECTRIC **power** production; INVESTMENTS; MATHEMATICAL optimization; BRAZIL; Fossil Fuel Electric **Power** Generation; Regulation and Administration of Communications, Electric, Gas, and Other Utilities; Investment Advice; Miscellaneous Financial Investment Activities; **Solar** Electric **Power** Generation; **Power** and Communication Line and Related Structures Construction; PHOTOVOLTAIC **power** generation





Searching: UNF OneSearch

UNF Library

Keyword ▾ solar AND power × Search ?

Basic Search Advanced Search Search History

<<



Detailed Record



Full Text through  
LinkSource

#### Related Information

Additional Resources

#### Find Similar Results

using SmartText Searching.

◀ Result List | Refine Search ◀ 7 of 1,150,867 ▶

## Assessing incentive policies for integrating centralized **solar power** generation in the Brazilian electric **power** system.

**Authors:** Malagueta, Diego<sup>1</sup> [diegomalagueta@yahoo.com.br](mailto:diegomalagueta@yahoo.com.br)  
Szklo, Alexandre<sup>1</sup>  
Borba, Bruno Soares Moreira Cesar<sup>2</sup>  
Soria, Rafael<sup>1</sup>  
Aragão, Raymundo<sup>1</sup>  
Schaeffer, Roberto<sup>1</sup>  
Dutra, Ricardo<sup>1</sup>

**Source:** Energy Policy. Aug2013, Vol. 59, p198-212. 15p.

**Document Type:** Article

**Subject Terms:** \***SOLAR power** plants  
\*ENERGY policy  
\*ELECTRIC **power** production  
\*INVESTMENTS  
\*MATHEMATICAL optimization  
PHOTOVOLTAIC **power** generation

**Geographic Terms:** BRAZIL

**NAICS/Industry** 221112 Fossil Fuel Electric **Power** Generation

**Codes:** 926130 Regulation and Administration of Communications, Electric, Gas, and Other Utilities

523930 Investment Advice

523999 Miscellaneous Financial Investment Activities

221114 **Solar** Electric **Power** Generation

237130 **Power** and Communication Line and Related Structures Construction

**Abstract:** Abstract: This study assesses the impacts of promoting, through auctions, centralized **solar power** generation (concentrated **solar power** – CSP, and photovoltaic **solar** panels – PV) on the Brazilian **power** system. Four types of CSP plants with parabolic troughs were simulated at two sites, Bom Jesus da Lapa and Campo Grande, and PV plants were simulated at two other sites, Recife and Rio de Janeiro. The main parameters obtained for each plant were expanded to other suitable sites in the country (totaling 17.2GW in 2040), as inputs in an optimization model for

#### Tools

Add to folder

Print

E-mail

Save

Cite

Export

Create Note

Permalink

Bookmark

# Initial Challenges

## 81. Performance of Remote Solar Thermal Power Plants.



Conference

By: Claflin, J; Leonard, R; Rogers, D; Urrutia, F. In: *Engineering Our Future: Are We up to the Challenge?: 27 - 30 September 2009, Burswood Entertainment Complex. Barton, ACT: Engineers Australia, 2009: [1460]-[1476].* , Database: Informit Engineering Collection

**Solar power** options have been developed to produce electricity for remote communities and mineral processing plants throughout Australia for an ongoing cost of just cents per kWh. Major advantage...

Subjects: **Solar power** plants; Electric power production -- Costs; **Solar** thermal energy; Electric power distribution -- Australia



[Not Available--Check for Other Options](#)





# Initial Challenges

**Title: Performance of Remote Solar Thermal Power Plants.**

**Source:** Claflin, J. *Engineering Our Future: Are We up to the Challenge?: 27 - 30 September 2009, Burswood Entertainment Complex* (2009-01-01) p. [1460]-[1476]. ISBN: 9780-858259225

[REVISE REQUEST](#)

**Resources Located for this Citation**

**Not Available Online -- Check for Other Options**

[AZ](#) [Check A-to-Z e-resource list.](#)





# Simple Design Philosophy

Connect our patrons to the  
knowledge they seek with as little  
effort on their part as possible



# Solutions: Always Provide a link

## 6. Assessing incentive policies for integrating centralized **solar power** generation in the Brazilian electric **power** system.



Academic  
Journal

By: Malagueta, Diego; Szklo, Alexandre; Borba, Bruno Soares Moreira Cesar; Soria, Rafael; Aragão, Raymundo; Schaeffer, Roberto; Dutra, Ricardo. *Energy Policy*. Aug2013, Vol. 59, p198-212. 15p. DOI: 10.1016/j.enpol.2013.03.029. , Database: Business Source Complete

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[Full Text through LinkSource](#)



# Solutions: Always provide an option

## 81. Performance of Remote Solar Thermal Power Plants.



Conference

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**Subjects:** **Solar power** plants; Electric power production -- Costs; **Solar** thermal energy; Electric **power** distribution -- Australia



[Not Available--Check for Other Options](#)



# Solutions: Always provide an option

**Title: Performance of Remote Solar Thermal Power Plants.**

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[REVISE REQUEST](#)

## Resources Located for this Citation

**Not Available Online -- Check for Other Options**



[Search Florida University Libraries](#)



[Request this item through ILLiad \(Interlibrary Loan Service\)](#)



[Check A-to-Z e-resource list.](#)





# Solutions: Always provide an option

UNF Thomas G. Carpenter Library

ILLiad - Interlibrary Loan and Document Delivery

Library Home Search Library Catalog Addresses/Phones Hours University of North Florida

Enter information below and press the Submit Request button to send.

- Logoff n00596333
- Main Menu
- New Request
  - Photocopy
  - Loan
  - Other (Free Text)
- View
  - Outstanding Requests
  - Electronically Received Articles
  - Checked Out Items
  - Cancelled Requests
  - History Requests
  - All Requests
  - Notifications
- Tools
  - Change User Information
- About ILL

### Book Chapter Request

Enter information below and press the Submit Request button to send.

**Describe the item you want**

\* Book Title  
Please do not abbreviate unless your citation is abbreviated

Book Author/Editor

Place of Publication

Publisher

Year

Edition

\* Inclusive Pages

ISSN/ISBN (International Standard Serial/Book Number)  
If given will speed request processing

Call Number

OCLC or Docline UI Number

Chapter Author

Chapter Title

\* Not Wanted After Date  
(MM/DD/YYYY)

Will you accept the item in a language other than English?  
If yes, specify acceptable languages in the notes field.

Account Number

Notes  
Put any information here that may help us find the item, as well as any other pertinent information.

**Where did you learn about this item?**

Where did you find this item cited?  
Please specify database name (examples are Psycinfo or ProQuest Medical), or a specific journal, book, or online source.

\* Indicates required field

Engineering Our Future: Are We up to the Challenge?: 27 - 30 September 2009,

Claflin, J.

20090101

[1460]-

9780858259225

Claflin, J.

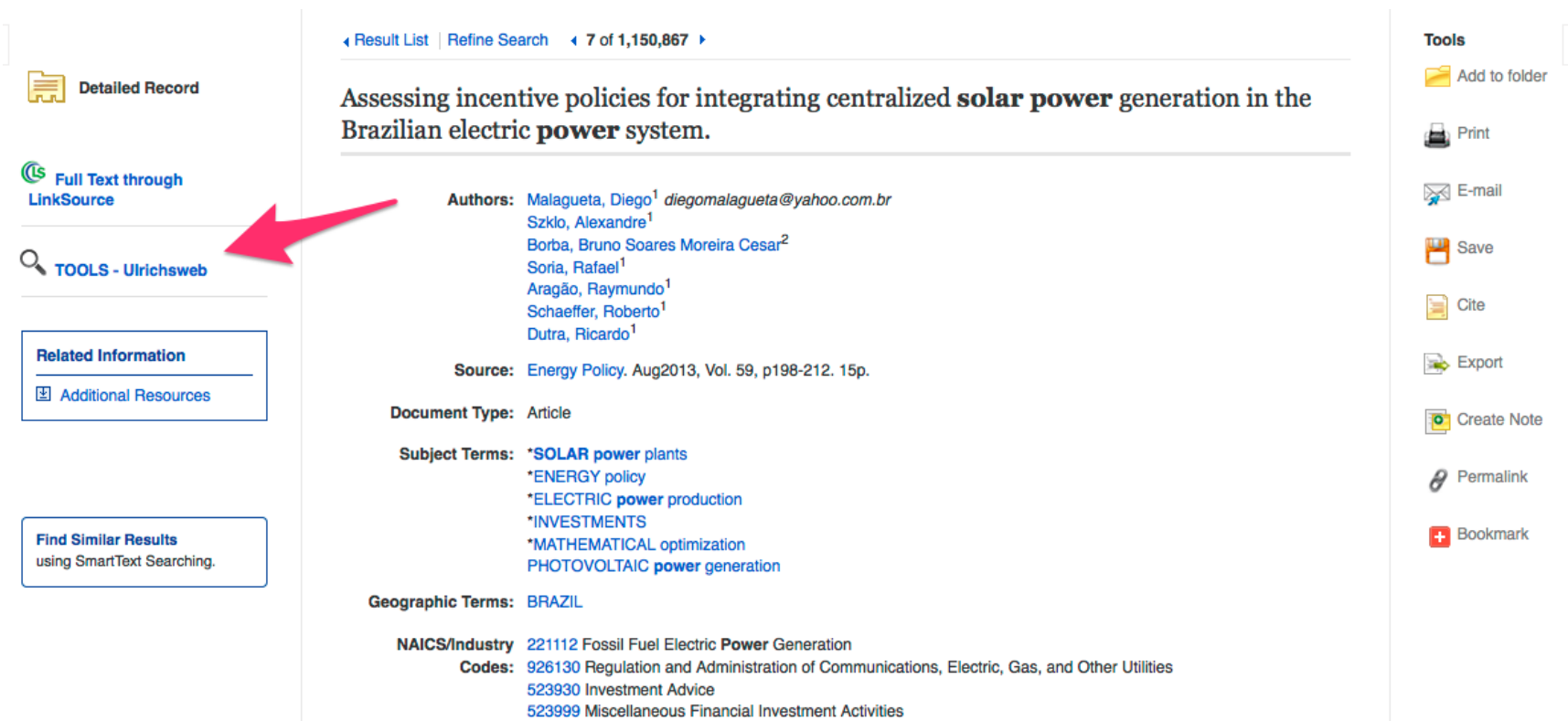
Performance of Remote Solar Thermal Power Plants.

04/12/2014

No

EBSCO:edsiee

# Solution: Integrate core tools



Result List | Refine Search | 7 of 1,150,867

## Assessing incentive policies for integrating centralized **solar power** generation in the Brazilian electric **power** system.

**Authors:** Malagueta, Diego<sup>1</sup> [diegomalagueta@yahoo.com.br](mailto:diegomalagueta@yahoo.com.br)  
Szklo, Alexandre<sup>1</sup>  
Borba, Bruno Soares Moreira Cesar<sup>2</sup>  
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Schaeffer, Roberto<sup>1</sup>  
Dutra, Ricardo<sup>1</sup>

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PHOTOVOLTAIC **power** generation

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**NAICS/Industry:** 221112 Fossil Fuel Electric **Power** Generation  
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523930 Investment Advice  
523999 Miscellaneous Financial Investment Activities

**Tools** >>

- Add to folder
- Print
- E-mail
- Save
- Cite
- Export
- Create Note
- Permalink
- Bookmark

**Detailed Record**

Full Text through LinkSource

**TOOLS - Ulrichweb**

**Related Information**


- Additional Resources

**Find Similar Results**  
using SmartText Searching.



# Solution: Integrate core tools

Ulrichsweb

**ULRICHSWEB™**  
GLOBAL SERIALS DIRECTORY


SerialsSolutions®  
A ProQuest Company  
[Log in to My Ulrich's](#)

Thomas G. Carpenter Library

--Select Language--

Search   Workspace   Ulrich's Update   Admin

Enter a Title, ISSN, or search term to find journals or other periodicals:



[Advanced Search](#)

[LinkSource](#)

Search UNF Library Catalog: [ISSN Search](#) | [Title Search](#)

Title Details   Table of Contents

**Related Titles**

[Alternative Media Edition \(2\)](#)

**Lists**

[Marked Titles \(0\)](#)


**Search History**

[PR Newswire US - \(4304\)](#)

**Basic Description**

<b>Title</b>	Energy Policy
<b>ISSN</b>	0301-4215
<b>Publisher</b>	Elsevier Ltd
<b>Country</b>	United Kingdom
<b>Status</b>	Active
<b>Start Year</b>	1973
<b>Frequency</b>	12 times a year
<b>Volume Ends</b>	# 15
<b>Language of Text</b>	Text in: English
<b>Refereed</b>	Yes
<b>Abstracted / Indexed</b>	Yes
<b>Serial Type</b>	Journal
<b>Content Type</b>	Academic / Scholarly
<b>Format</b>	Print

[Save to List](#) [Email](#) [Download](#) [Print](#) [Corrections](#) [Expand All](#) [Collapse All](#)





# Web Scale vs ILS

1. Eliminate MARC serial data loads
2. ILS access through a widget in the EDS results page (auto-populated)

Result List: TI engineering our future: UNF OneSearch

ehis.ebscohost.com/eds/results?sid=23b7d54f-4324-46d9-bf58-1d8e034c1b81%40sessionmgr12&vid=14&hid=8&bquery=TI+(engir

Sign In Folder Preferences Ask-A-Librarian Languages New Features Help

New Search Multimedia A-to-Z Publications Database Locator Course Reserves

UNF Library

Searching: UNF OneSearch

Title engineering our future Search

Basic Search Advanced Search Search History

Refine Results

Current Search

Find all my search terms:

TI engineering our future

Expanders

Also search within the full text of the articles

Limit To

☐ Full Text

☐ Peer Reviewed

☐ Catalog Only

1931 Publication Date 2013

Show More

Source Types

☒ All Results

☐ Magazines (37)

☐ Academic Journals (28)

☐ News (21)

☐ Books (10)

☐ Trade Publications (3)

Show More

Subject

Publisher

Search Results: 1 - 30 of 117

Relevance Page Options Share

1. 'We must build for our future'; ENGINEERING

Daily Mirror, The (London, England) , June 7, 2013 News 01, eirs, p. 21 1pp, Database: NewsBank

News

PARTY politics should not get in the way of developing the country's infrastructure, it was warned yesterday. President of Engineers Ireland Michael Phillips said short-term thinking must be put ...

Not Available--Check for Other Options

2. Richard Knight

/ 39222001941074.tifPhysical Description: 5 x 7 inches. , Database: OAlster

Date original:1947-1966

Electronic Resource

View this record from OAlster

3. PSP: anti-NAVO manifestatie, 24 maart 1979

, Database: OAlster

Dutch

Electronic Resource

View this record from OAlster

4. Investing in Our Future. Science, Mathematics, Engineering, and Technology Education. Report of the FY 1994 Budget Summary. FCCSET Committee on Education and Human Resources.

By: Federal Coordinating Council for Science, Engineering and Technology, Washington, DC.. 1994 56 pp. (ED072960)

Full Text from ERIC , Database: ERIC

This is a report produced by the Committee on Education and Human Resources (CEHR) of the Federal Coordinating Council for Science, Engineering, and Technology (FCCSET) to supplement President Cl...

Subjects: Educational Change; Engineering Education; Federal Government; Federal Programs; Higher Education; Mathematics Education; Science Education; Secondary Education; Technology Education

5. Remarkable Stabilization of Self-Assembled Organogels by Polymerization

, Database: OAlster

Search State University Libraries

UBORROW

TI engineering our future

Search

performance of Phrase not found Highlight All Match Case

## Web Scale vs ILS

1. Eliminate MARC serial data loads
2. ILS access through a widget in the EDS results page (auto-populated)
3. **Direct upload of e-content into EDS NOT ILS**

### Content Provider

X

<input type="checkbox"/>	Regional Business News	7,529,103
<input type="checkbox"/>	RILM Abstracts of Music Literature	93,340
<input type="checkbox"/>	Science Citation Index	15,412,869
<input type="checkbox"/>	ScienceDirect	6,268,437
<input type="checkbox"/>	Senior High Core Collection (H.W. Wilson)	40,008
<input type="checkbox"/>	Social Sciences Citation Index	3,110,783
<input type="checkbox"/>	SocINDEX with Full Text	1,612,900
<input type="checkbox"/>	SPORTDiscus with Full Text	899,626
<input type="checkbox"/>	UNF Catalog	662,236
<input type="checkbox"/>	UNF Digital Commons	2,000
<input type="checkbox"/>	UNF eBook Collection	92,035

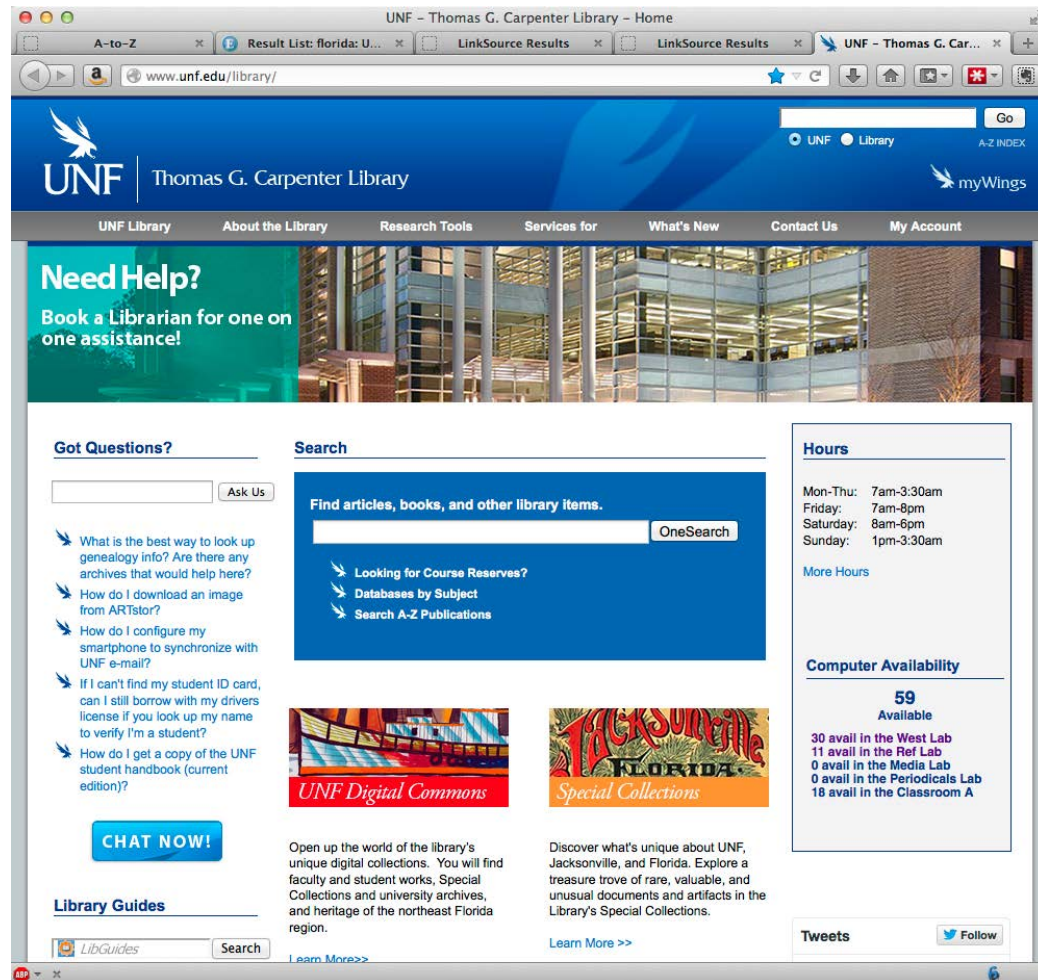
Update

Cancel



## Web Scale vs ILS

1. Eliminate MARC serial data loads
2. ILS access through a widget in the EDS results page (auto-populated)
3. Direct upload of e-content into EDS NOT ILS
4. **EDS as primary search tool on library home page**





## Testing

1. Inspected thousands of search results
2. Analyzed individual content provider reliability
3. Examined link resolver performance
4. Confirmed remote access performance

Achieved 90% reliability!







## Training

1. EBSCO provided onsite training
2. Library Systems/Instruction trained staff about the mechanics
3. Library Instruction trained librarians, students and faculty on how to use the tool







One Place.  
One Click.  
One Search.

**One|Search**

Find UNF Library resources from a single search box.

[www.unf.edu/OneSearch](http://www.unf.edu/OneSearch)

One Place.  
One Click.  
One Search.

## One|Search



OneSearch allows you to find most of the UNF Library resources from a single search box. The search combines the library's catalog and many databases into one database so your search is faster, and more thorough.

This includes:

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- ✓ eBooks
- ✓ Peer-Reviewed Articles
- ✓ Newspaper Articles
- ✓ And much more!



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Phone: (904) 620-2616

[www.unf.edu/library](http://www.unf.edu/library)



One|Search  
allows you to find:

Books

eBooks

Peer-Reviewed Articles

Newspaper Articles

And much more!

Connect.  
Explore.  
Soar.

Provided by the  
Thomas G. Carpenter Library

[www.unf.edu/OneSearch](http://www.unf.edu/OneSearch)

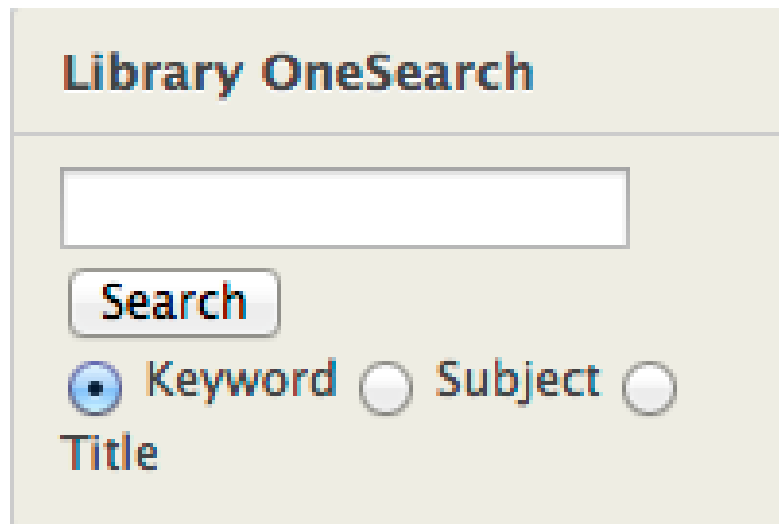
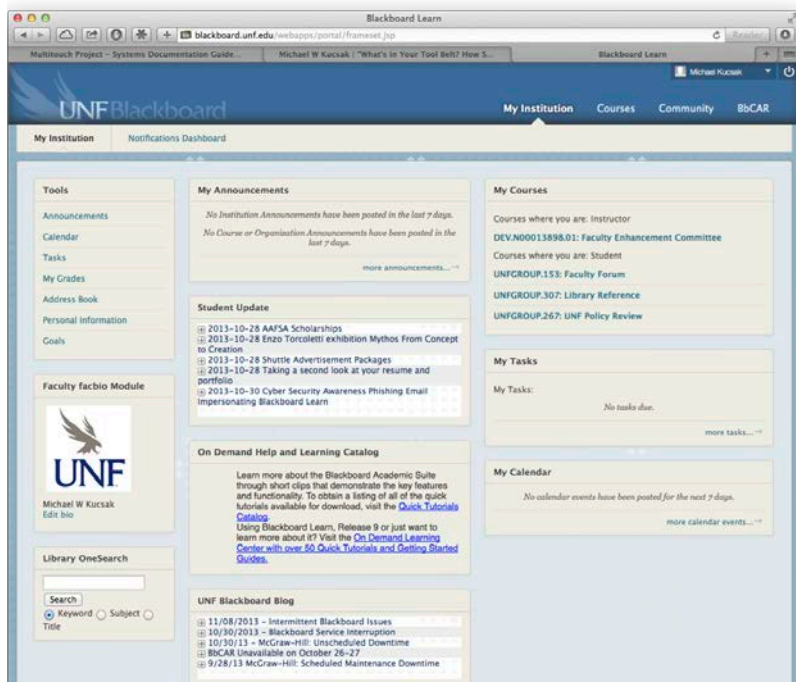
# Marketing



Thomas G. Carpenter  
Library

# Blackboard Integration

## Blackboard Home Screen



# Blackboard Integration

The screenshot displays the Blackboard Learn web application. The browser window title is 'Blackboard Learn'. The address bar shows the URL: <https://blackboard.unf.edu/webapps/portal/frameset.jsp>. The user is logged in as 'Michael Kucak'. The navigation bar includes links for 'My Institution', 'Courses', 'Community', and 'BbCAR'. Below the navigation bar is a search bar with a search button and radio buttons for 'Keyword', 'Subject', and 'Title'. The search results are displayed in a table with 20 columns and 1 row. The first result is titled 'Solar Power [electronic resource (video)] : World's Toughest Fixes, Season 2 / National Geographic Television & Film.' and includes a summary, keywords, and a link to the full text. The second result is titled 'Assessing incentive policies for integrating centralized solar power generation in the Brazilian electric power system.' and includes a summary, keywords, and a link to the full text. The third result is titled 'SOLAR POWER WORLDWIDE.' and includes a summary, keywords, and a link to the full text.

Blackboard Learn

https://blackboard.unf.edu/webapps/portal/frameset.jsp

Michael Kucak

UNF Blackboard

My Institution Courses Community BbCAR

Search

Keyword Subject Title

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	...	4182
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	-----	------

1 **Solar Power [electronic resource (video)] : World's Toughest Fixes, Season 2 / National Geographic Television & Film.**

Summary: Grab your sunglasses: we're going to harness the sun to drive two new solar reflective power towers in the United States. This show is definitely not for the superstitious as master rigger Sean Riley joins a crew lifting two 65-ton boilers 160 feet up to two towers and suspending them above 24,000 mirrors - completing America's first large scale solar power tower. Pioneering science in the race to compete with fossil fuels, this project may redefine solar energy and promise a bright career for all of these engineers. But expectations are high and the crew is learning as they go. Weeks behind schedule, the plan is constantly changing. As if things weren't stressful enough, the sea of mirrors always looms and the threat of being cooked alive. One slip up and it's going to be way more than seven years bad luck.

Films for the Humanities & Sciences (Film)

Films Media Group.

National Geographic Television & Film.

2 **Assessing incentive policies for integrating centralized solar power generation in the Brazilian electric power system.**

Malagueta, Diego1 [diegomalagueta@yahoo.com.br](mailto:diegomalagueta@yahoo.com.br)Szklo, Alexandre1Borba, Bruno Soares Moreira Cesar2Soria, Rafael1Aragão, Raymundo1Schaeffer, Roberto1Dutra, Ricardo1

Energy Policy. Aug2013, Vol. 59, p198-212. 15p.

Abstract: This study assesses the impacts of promoting, through auctions, centralized solar power generation (concentrated solar power ? CSP; and photovoltaic solar panels ? PV) on the Brazilian power system. Four types of CSP plants with parabolic troughs were simulated at two sites, Bom Jesus da Lapa and Campo Grande, and PV plants were simulated at two other sites, Recife and Rio de Janeiro. The main parameters obtained for each plant were expanded to other suitable sites in the country (totaling 17.2GW in 2040), as inputs in an optimization model for evaluating the impacts of the introduction of centralized solar power on the expansion of the electricity grid up to 2040. This scenario would be about USD\$ 185 billion more expensive than a business as usual scenario, where expansion solely relies on least-cost options. Hence, for the country to incentivize the expansion of centralized solar power, specific auctions for solar energy should be adopted, as well as complementary policies to promote investments in R&D and the use of hybrid systems based on solar and fuels in CSP plants. [Copyright &y& Elsevier]

3 **SOLAR POWER WORLDWIDE.**

Mechanical Engineering. Mar2013, Vol. 135 Issue 3, p14-15. 2p.

The article presents information on a project by the Institute of Electrical and Electronics Engineers' Community Solutions Initiative group, which aims to provide solar energy across the globe through its solar power stations in trailers, called SunBlazers. The group's goal is to provide electricity for as many 40 million individuals by 2020. Features of the SunBlazers solar power stations are presented.



# Multi-Touch Surface





# Summary

- Links to full text
- Auto-populate ILLiad
- Ulrichs integration
- Union catalog widget
- Guest default/JIT EZProxy
- Available in the Library by default
- Commitment to EDS
- EBSCO link resolver/A-Z
- EBSCO content
- EBSCO marketing
- Eliminated MARC loads
- Pushed reliable vendors to the top
- Made vendors work for their \$\$\$





# Fruits of our Labor

- 107% increase full text downloads
- >40% reduction in ILL
- Collaborated with CS student senior projects
- Opportunities to build partnerships
- EBSCO Success story
- Jacksonville BizJournal Tech Innovation Award



# Thank you

## Questions?

Michael Kucsak

Director of Library Systems and Technology

University of North Florida

NISO Virtual Conference November 20, 2013



Thomas G. Carpenter  
Library